PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF APS (ACCESSIBLE PEDESTRIAN SIGNALS)/CPS (COUNTDOWN PEDESTRIAN SIGNALS) ACROSS THE SOUTH AND WEST LEGS OF THE INTERSECTION OF MD 124 (QUINCE ORCHARD ROAD) AND TWIN LAKES DRIVE IN MONTGOMERY COUNTY, MARYLAND,

MD 124 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE EXISTING INTERSECTION OPERATION WILL REMAIN THE SAME.

TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS

MD 124 (QUINCE ORCHARD ROAD) AND TWIN LAKES DRIVE

1. MD 124 (QUINCE ORCHARD ROAD) AND TWIN LAKES DRIVE - SOUTH LEG

STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS QUINCE ORCHARD ROAD, WAIT" *

WALK: RAPID TICK

2. TWIN LAKES DRIVE AND MD 124 (QUINCE ORCHARD ROAD) - WEST LEG

STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS TWIN LAKES DRIVE, WAIT" *

WALK: RAPID TICK

* MESSAGE USED IF DISTANCE FROM NEAREST PUSHBUTTON FOR PERPENDICULAR CROSSING IS < 10'
** MESSAGE USED IF CROSSWALK DIVERGES FROM OR CONVERGES WITH PARALLEL TRAFFIC

NOTE: MESSAGES FOR INTERSECTION CONFIGURATIONS, VARYING FROM THE ABOVE ARE TO BE APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

STANDARD NO. MD-104.04-03 (LEFT LANE CLOSURE)

STANDARD NO. MD-104.02-13 (INTERSECTION FLAGGING OPERATION)

STANDARD NO, MD-104.04-05 (RIGHT LANE CLOSURE)

STANDARD NO. MD-104.04-13 (LEFT TURN BAY CLOSURE)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. CEDRIC WARD ASSISTANT DISTRICT ENGINEER -TRAFFIC (MONTGOMERY)

PHONE: (301) 513-7498

MR. VERNON STINNETT ASSISTANT DISTRICT ENGINEER - MAINTENANCE

PHONE: (301) 513-7304

MR. VICTOR GRAFTON ASSISTANT UTILITY ENGINEER PHONE: (301) 513-7350

MR. KAMAL HAMUD

TEAM LEADER, TRAFFIC SIGNALS MONTGOMERY COUNTY DOT -DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS

PHONE: (240) 777-8761

CHIEF, TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630

MR. ED RODENHIZER OOTS/SIGNAL SHOP PHONE: (410) 787-7652

MR. RICHARD L. DAFF, SR.

MR, MICHAEL A, STOCKER OOTS/SIGNAL WHAREHOUSE PHONE: (410) 787-7696

MR. CHRIS ROMAINE

TRAFFIC SIGNALS SHOP MONTGOMERY COUNTY DOT -

DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS

PHONE: (240) 777-8762

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

6 S.F.

9571

DESCRIPTION ITEM NO. QUANTITY

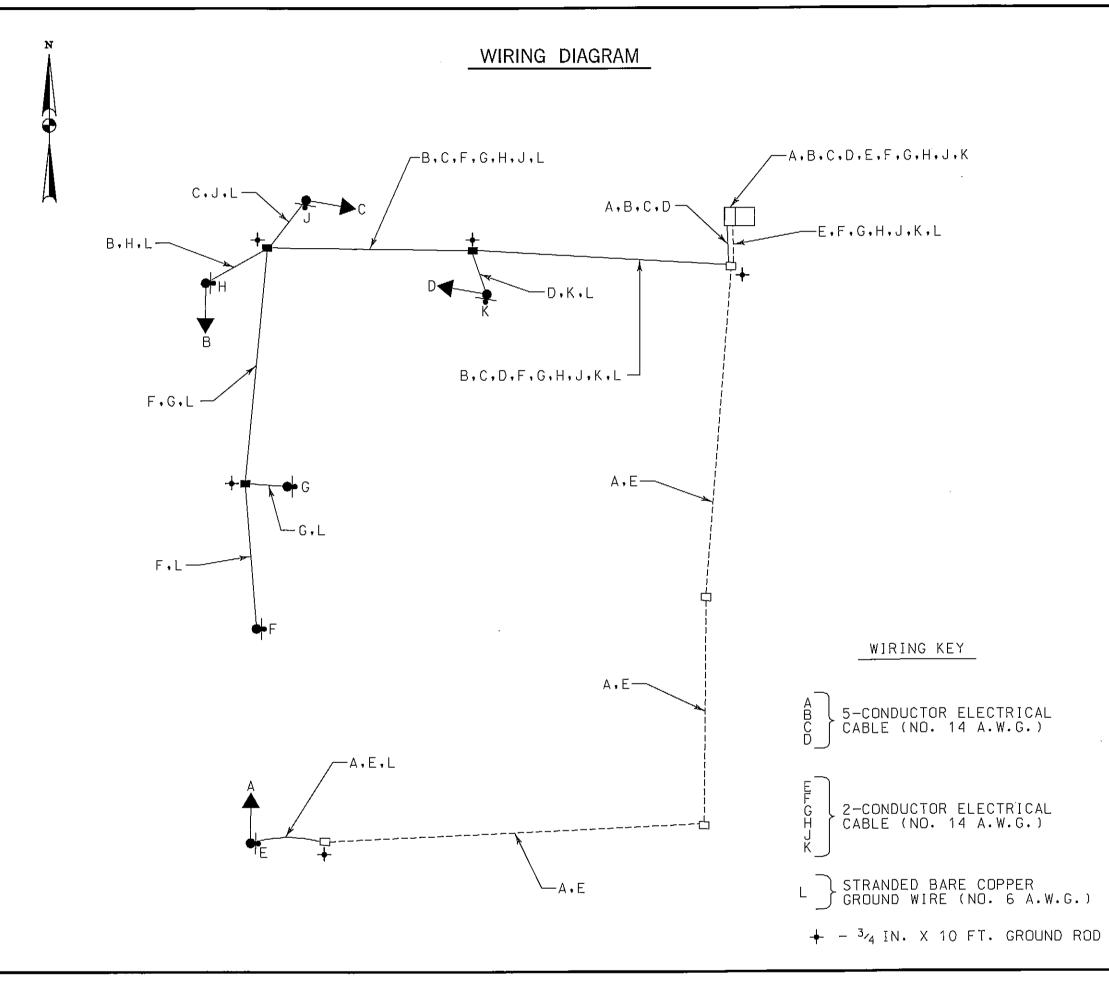
> SHEET ALUMINUM SIGNS TO CONSIST OF (POLE MOUNT): - 4 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS QUINCE ORCHARD ROAD"

R10-3(1) SIGN (9 IN. imes 15 IN.) TO READ "PUSHBUTTON TO CROSS TWIN LAKES DRIVE"

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

1. ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR



EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

	ITEM NO.	QUANTI	<u>TY</u> <u>DESCRIPTION</u>	
	1001	2 EAC	H MAINTENANCE OF TRAFFIC	
	2001	6 C.Y	. CLASS 2 EXCAVATION	
	2002	6 C.Y	. TEST PIT EXCAVATION	
	5003	280 L.F	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS -	
	5004	375 L.F	. 12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LIN	۷E S
	5005	25 L.F	. 24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LIN	NES
	6001	550 L.F	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH	
	6002	2195 S.F	. 5 INCH CONCRETE SIDEWALK	
	6003	180 S.F	. DETECTÁBLE WARNING SURFACE FOR CURB RAMPS	
	8008	6 EAC	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS	
	8009	6 EAC	H BREAKAWAY PEDESTAL POLE (ANY SIZE)	
	8016	4 EAC	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS	
	8024	1 EAC	REM & DISPOSE MAT & EQUIP PER ASSIGN	
	8038	100 L.F	. UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED	
,	8040	130 L.F	. UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	
	8041	33 L.F	. WOOD SIGN SUPPORTS UP TO 4 X 6	
	8042	22 S.F	. INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)	
	8044	260 L.F	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	
	8048	3 EAC	H FURNISH AND INSTALL ELECTRICAL HANDHOLE	
	8053	2 EAC	CUT, CLEAN, GALVANIZE, AND CAP TRAFFIC SIGNAL STRUCTURE	
	8055	1025 L.F	. ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	
	8057	700 L.F	. ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	

TOD NO: XX439-06 SHA NO: MO242B54 MD 124 @ Twin Lakes Drive

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY

TRAFFIC ENGINEERING DESIGN DIVISION MD 124 (QUINCE ORCHARD ROAD) AND TWIN LAKES DRIVE

GENERAL INFORMATION SHEET

(GAITHERSBURG, MD)



SCALE NONE DATE JANUARY 26, 2012 CONTRACT NO. XX4395185 DESIGNED BY _____<u>J. RASMUSSEN</u> COUNTY___ MONTGOMERY J. RASMUSSEN DRAWN BY

LOGMILE ___ <u> 15012401.56</u> TIMS NO. _____K943 CHECKED BY ______N. LEARY TOD NO._ F.A.P. NO. SHEET NO. 4 OF 4 TS NO. 1997C DRAWING TSP - 04 OF 4

PHASE CHART

10 11 12 13 14 15 16 17 R R Y Y G G RYG RYG

PHASE 2 + 5	R	R	G +G−	G ← G−	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	_
2 + 5 CHANGE	R	R	G ←Y−	G + Y−	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	\ \sqrt{\psi}
PHASE 2 + 6	G	G	G	G	G	R	R	R	R	R	R	WK	WK	WK_	wĸ	DW	DW	•
PED. CLEARANCE	G	G	G	G	G	R	R	R	R	R	R	FL/DW	FL/DW	FL⁄DW	FL/DW	DW	DW	
2 + 6 CHANGE	Y	Y	Υ	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	•
PHASE 4 + 8	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW] [
4 + 8 CHANGE	R	R	R	R	R	Y	Y	Y	Υ	Υ	Υ	DW	DW	DW	DW	DW	DW	→ ▼
PHASE 4 ALT	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	WK	WK	
PED. CLEARANCE	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	FL/DW	FL/DW	
4 ALT CHANGE	R	R	R	R	R	Y	Y	Υ	Υ	Υ	Υ	DW	DW	DW	DW	DW	DW	+ ₩
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FL⁄R	FL⁄R	FL⁄R	FL⁄R	FL⁄R	FL⁄R	DARK	DARK	DARK	DARK	DARK	DARK	+